

Amendments to the Claims:

This listing of claims replaces any and all prior claim lists.

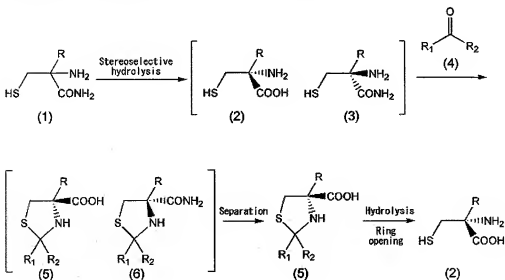
Listing of Claims:

1. (original) A process for producing an optically active 2-alkyl-L-cystein or a salt thereof from a 2-alkylcysteinamide or a salt thereof, which comprises allowing cells of microorganism or a treated product thereof having an activity of stereoselective hydrolysis of the amide bond of a 2-alkyl-L-cysteinamide or a salt thereof to act on a 2-alkylcysteinamide represented by the general formula (1) or a salt thereof, so as to generate a 2-alkyl-L-cysteine represented by the general formula (2) or a salt thereof;

allowing the generated 2-alkyl-L-cysteine or salt thereof and an unreacted 2-alkyl-D-cysteinamide represented by the general formula (3) or a salt thereof to react with an aldehyde or ketone represented by the general formula (4), or an acetal or ketal thereof, so as to derive therefrom a 4-alkylthiazolidine-4-carboxylic acid represented by the general formula (5) or a salt thereof and a 4-alkylthiazolidine-4-carboxamide represented by the general formula (6) or a salt thereof, respectively;

separating the 4-alkylthiazolidine-4-carboxylic acid represented by the general formula (5) or salt thereof from the mixture thereof; and

hydrolyzing it for ring-opening to yield an optically active 2-alkyl-L-cysteine represented by the general formula (2) or a salt thereof,



where in the general formulas (1), (2), (3), (5) and (6), R represents a C₁₋₄ lower alkyl; and in the general formulas (4), (5) and (6), each of R₁ and R₂ independently represents hydrogen or a C₁₋₄ lower alkyl, or R₁ and R₂ bind to each other to form a 5- to 8-membered alicyclic structure, provided that R₁ and R₂ do not simultaneously represent hydrogen.

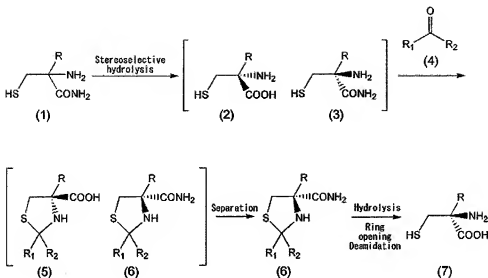
2. (original) A process for producing an optically active 2-alkyl-D-cystein or a salt thereof from a 2-alkylcysteinamide or a salt thereof, which comprises

allowing cells of microorganism or a treated product thereof having an activity of stereoselective hydrolysis of the amide bond of a 2-alkyl-L-cysteinamide or a salt thereof to act on a 2-alkylcysteinamide represented by the general formula (1) or a salt thereof, so as to generate a 2-alkyl-L-cysteine represented by the general formula (2) or a salt thereof;

allowing the generated 2-alkyl-L-cysteine or salt thereof and an unreacted 2-alkyl-D-cysteinamide represented by the general formula (3) or a salt thereof to react with an aldehyde or ketone represented by the general formula (4), or an acetal or ketal thereof, so as to derive therefrom a 4-alkylthiazolidine-4-carboxylic acid represented by the general formula (5) or a salt thereof and a 4-alkylthiazolidine-4-carboxamide represented by the general formula (6) or a salt thereof, respectively;

separating the 4-alkylthiazolidine-4-carboxamide represented by the general formula (6) or salt thereof from the mixture thereof; and

hydrolyzing it for ring-opening and amide hydrolysis to yield an optically active 2-alkyl-D-cysteine represented by the general formula (7) or a salt thereof,



where in the general formulas (1), (2), (3), (5), (6) and (7), R represents a C₁₋₄ lower alkyl; and in the general formulas (4), (5) and (6), each of R₁ and R₂ independently represents hydrogen or a C₁₋₄ lower alkyl, or R₁ and R₂ bind to each other to form a 5- to 8-membered alicyclic structure, provided that R₁ and R₂ do not simultaneously represent hydrogen.

3. (Canceled)

4. (Previously presented) The process according to claim 1, wherein the microorganism having an activity of stereoselective hydrolysis of the amide bond of a 2-alkyl-L-cysteineamide or a salt thereof is a bacterium which belongs the genus Xanthobacter, the genus Protaminobacter, or the genus Mycoplana.

5. (Previously presented) The process according to claim 1, wherein said R represents methyl.

6. (Previously presented) The process according to claim 1, wherein said R₁ and R₂ both represent methyl.

7. (Currently amended) The process according to claim 1, wherein a basic catalyst is used when the 2-alkyl-L-cysteine represented by the general formula (2) or salt thereof, or the

2-alkyl-D-cysteinamide represented by the general formula (3) or salt thereof, ~~the 2-alkyl-D-cysteine represented by the general formula (7) or salt thereof, or the 2-alkyl-L-cysteine represented by the general formula (10) or a salt thereof~~ is allowed to react with the aldehyde or ketone represented by the general formula (4), or an acetal or ketal thereof.

8. (Currently amended) The process according to claim 1, wherein a dehydrating agent is used when the 2-alkyl-L-cysteine represented by the general formula (2) or salt thereof, or the 2-alkyl-D-cysteinamide represented by the general formula (3) or a salt thereof, ~~the 2-alkyl-D-cysteine represented by the general formula (7) or salt thereof, or the 2-alkyl-L-cysteine represented by the general formula (10) or salt thereof~~, is allowed to react with the aldehyde or ketone represented by the general formula (4), or an acetal or ketal thereof.

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Previously presented) The process according to claim 2, wherein the microorganism having an activity of stereoselective hydrolysis of the amide bond of a 2-alkyl-L-cysteinamide or a salt thereof is a bacterium which belongs the genus Xanthobacter, the genus Protaminobacter, or the genus Mycoplana.

16. (Previously presented) The process according to claim 2, wherein said R represents methyl.

17. (Previously presented) The process according to claim 2, wherein said R₁ and R₂ both represent methyl.

18. (Currently amended) The process according to claim 2, wherein a basic catalyst is used when the 2-alkyl-L-cysteine represented by the general formula (2) or salt thereof, or the 2-alkyl-D-cysteinamide represented by the general formula (3) or salt thereof, ~~the 2-alkyl-~~

~~D-cysteine represented by the general formula (7) or salt thereof, or the 2-alkylcysteine represented by the general formula (10) or a salt thereof~~ is allowed to react with the aldehyde or ketone represented by the general formula (4), or an acetal or ketal thereof.

19. (Currently amended) The process according to claim 2, wherein a dehydrating agent is used when the 2-alkyl-L-cysteine represented by the general formula (2) or salt thereof, ~~or the 2-alkyl-D-cysteinamide represented by the general formula (3) or a salt thereof, the 2-alkyl-D-cysteine represented by the general formula (7) or salt thereof, or the 2-alkylcysteine represented by the general formula (10) or salt thereof,~~ is allowed to react with the aldehyde or ketone represented by the general formula (4), or an acetal or ketal thereof.

- 20. (Canceled)
- 21. (Canceled)
- 22. (Canceled)
- 23. (Canceled)